

NAT I Engineering Chemistry

Sr	Questions	Answers Choice
1	Gooch crucible is used for the filtration of precipitates having	A. High solubility B. High concentration C. High ignition temperature D. Low temperature
2	The reference calomel electrode is made from which of the following?	A. $ZnCl_2$ B. $CuSO_4$ C. Hg_2Cl_2 D. $HgCl_2$
3	The effect of increasing the pressure on the following equilibrium $2A + 3B \rightleftharpoons 3A + 2B$ is	A. Forward reaction is favoured B. Backward reaction is favoured C. No effect D. None of the above
4	The alkali metal which is liquid at $15^\circ C$ is	A. K B. Cs C. Na D. None
5	Heating a mixture of sodium benzoate and soda lime gives	A. Methane B. Benzene C. Sodium benzene D. Calcium benzoate
6	Which one is the property of an ideal solvent	A. Should be expensive B. It should react chemically with the solute C. Impurities should crystallize along with the solute D. Should be safe to use
7	Natural fertilizer provides potassium in the form of K_2O (potash)	A. 1.5 kg B. 3 kg C. 4.5 kg D. 6.5 kg
8	Which quantum number is sufficient to describe the electron in hydrogen atom?	A. l B. n C. m D. s
9	The total number of protons in 10 g of calcium carbonate is ($N_0 = 6.023 \times 10^{23}$)	A. 1.5057×10^{24} B. 2.0478×10^{24} C. 3.0115×10^{24} D. 4.0956×10^{24}
10	The pore size of the filter paper depends upon	A. Nature of the medium B. Temperature of the medium C. Size of the particles D. Mass of the particles
11	Dehydration of glycerol give	A. Propane B. Propene C. Acrolein D. Benzene
12	Among alkali metal salts, the lithium salts are the poorest conductors of electricity in aqueous solution because of	A. Easy diffusion of Li^+ ions B. Lower ability of Li^+ ions to polarize water molecules C. Lowest charge to radius ratio D. Higher degree of hydration of Li^+ ions.
13		A. Ionic bonds B. 2 sigma bonds

13	The carbon atoms in calcium carbide are held by	C. 2 covalent one co-ordinate bond D. 2 π and one σ bond
14	When KClO_3 is heated it decomposes into KCl and O_2 if some MnO_2 is added the reaction goes much faster because	A. MnO_2 decomposes to give O_2 B. MnO_2 provides heat by reacting C. Better contact is provided by MnO_2 D. MnO_2 acts as a catalyst
15	The kinetic theory of gases predicts that total kinetic energy of a gaseous assembly depends on	A. Pressure of the gas B. Temperature of the gas C. Volume of the gas D. Pressure temperature and volume of the gas
16	Which of the following mineral does not contain Al?	A. Cryolite B. Mica C. Feldspar D. Fluorspar
17	Salol is prepared from	A. Salicylic acid and phenol B. Salicylic acid and methyl alcohol C. Both D. None
18	Carbon monoxide is pollutant as it	A. Inactivates nerves B. Inhibits glycolysis C. Combines with oxygen D. Combines with hemoglobin
19	Acetic anhydride is obtained from acetyl chloride by the reaction of	A. P_2O_5 B. HCl C. CH_3COONa D. CH_3COCH_3
20	Ammonia gas used directly as a fertilizer is injected into the soil at a depth of about	A. Two inches B. Three inches C. Five inches D. Six inches